

See also 323 136 Sub a'

WHAT IS CLAIMED IS:

- 1 1. An embolizing composition comprising:
 - 2 (a) from about 2.5 to about 8.0 weight percent of an ethylene
 - 3 vinyl alcohol copolymer embolizing agent;
 - 4 (b) from about 10 to about 40 weight percent of a water
 - 5 insoluble contrast agent selected from the group consisting of tantalum,
 - 6 tantalum oxide and barium sulfate;
 - 7 (c) from about 52 to about 87.5 weight percent of a
 - 8 biocompatible solvent
 - 9 wherein the weight percent of each of the components is based on
 - 10 the total weight of the complete composition.
- 1 2. The embolizing composition according to Claim 1 wherein
- 2 said ethylene vinyl alcohol copolymer comprises from about 25 to about 60
- 3 mole percent of ethylene and from about 40 to about 75 mole percent of
- 4 vinyl alcohol.
- 1 3. The embolizing composition according to Claim 2 wherein
- 2 said biocompatible solvent is DMSO.
- 1 4. The embolizing composition according to Claim 3 wherein
- 2 said contrast agent is tantalum.
- 1 5. The embolizing composition according to Claim 3 wherein
- 2 said contrast agent is tantalum oxide.
- 1 6. The embolizing composition according to Claim 3 wherein
- 2 said contrast agent is barium sulfate.

1 7. A method for embolizing a blood vessel by injecting into
2 said blood vessel a sufficient amount of an embolizing composition
3 comprising:

4 (a) from about 2.5 to about 8.0 weight percent of an ethylene
5 vinyl alcohol copolymer embolizing agent;

6 (b) from about 10 to about 40 weight percent of a water
7 insoluble contrast agent selected from the group consisting of tantalum,
8 tantalum oxide and barium sulfate;

9 (c) from about 52 to about 87.5 weight percent of a
10 biocompatible solvent

11 wherein the weight percent of each of the components is based on
12 the total weight of the complete composition

13 under conditions wherein a precipitate is formed which embolizes
14 the blood vessel.

1 8. The method according to Claim 7 wherein said ethylene
2 vinyl alcohol copolymer comprises from about 25 to about 60 mole percent
3 of ethylene and from about 40 to about 75 mole percent of vinyl alcohol.

1 9. The method according to Claim 8 wherein said biocompatible
2 solvent is DMSO.

1 10. The method according to Claim 9 wherein said contrast agent
2 is tantalum.

1 11. The method according to Claim 9 wherein said contrast agent
2 is tantalum oxide.

1 12. The method according to Claim 9 wherein said contrast agent
2 is barium sulfate.

1 13. The method according to Claim 7 wherein the embolizing
2 composition is injected into the blood vessel at a rate of about 0.05 to 0.3
3 cc/minute.

1 14. The method according to Claim 7 wherein the embolizing
2 composition is injected into the blood vessel at a rate of at least 0.6
3 cc/minute.

1 15. The method according to Claim 14 wherein the injection rate
2 of at least 0.6 cc/minute is employed to form a filament like mass
3 projecting down stream from the catheter tip for embolizing tumor masses,
4 organs and arteriovenous malformations (AVM).

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